



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

RBW7111G00131-8G

Job Sheet 189976



Part No: RBW7111G00131-8G

Job Qty: 1 pcs

Part Name: Forward Cowling Sling



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 2/1/19

05/01/2019

Job Tracking No:

Due Date: ~~3/29/19~~

04/12/2019

Created By: Patrick Lussier

Type: Stock

Description:

Note: DWG RBW7111G00131-8G Rev.A IPP Rev. A 19.01.31 New issue DP Verify DD

Ship Via:

Bill of Materials



Container No: S177096



Part: RBW7111G00131-8G

Job No: 189976

Serial No/Batch: S177096

Revision: A

Inspector:

Exp Date:

Instructions:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 05/01/19

Job Routing							
Op No	Operation	Qty	Start Date	Due Date	Standard Setup Hrs	Run Hrs	Workcenter/Supplier
100	Purchasing	1 pcs	3/29/19	3/29/19	0.00	0.00	Purchasing - 1
							Purchasing - 2
							Purchasing - 3
110	Packaging 2-1 - Receive - B4B	1 pcs	3/29/19	3/29/19	0.00	0.00	Packaging 2 - 1 - B4B
							Packaging 2 - 2 - B4B
							Packaging 2 - 3 - B4B
120	QC 6	1 pcs	3/29/19	3/29/19	0.00	0.00	QC 6 - 38
							QC 6 - 42
							QC 6 - 9
							QC 6 - 68
							QC 6 - 61
130	Small Fab - 2 - B4B	1 pcs	3/29/19	3/29/19	0.00	0.33	Small Fab - 1 - B4B
							Small Fab - 2 - B4B
							Small Fab - 3 - B4B
							Small Fab - 4 - B4B
							Small Fab - 5 - B4B
							Small Fab - 6 - B4B
							Small Fab - 7 - B4B
140	QC 5	1 pcs	3/29/19	3/29/19	0.00	0.00	QC 5 - 10
							QC 5 - 12
							QC 5 - 17
							QC 5 - 18
							QC 5 - 19
							QC 5 - 22
							QC 5 - 24
							QC 5 - 3
							QC 5 - 38
							QC 5 - 42
							QC 5 - 43
							QC 5 - 49
							QC 5 - 51
							QC 5 - 58
							QC 5 - 68
							QC 5 - 9
150	Packaging 3-1 - Stock - B4B	1 pcs	3/29/19	3/29/19	0.00	0.00	Packaging 3 - 1 - B4B
							Packaging 3 - 2 - B4B
							Packaging 3 - 3 - B4B
							Packaging 3 - 4 - B4B
							Packaging 3 - 5 - B4B
160	QC 21 - FG	1 pcs	3/29/19	3/29/19	0.00	0.00	QC 21 - FG - 21

Part Op 100 - Issue P/O to METEC: 042477 MANUFACTURE RBW7111G00131-8G AS PER DWG. ***METEC to supply all Descriptions: except for -5,-9, lanyard and placard*** Certificate of conformity is required

130 - 1-Engrave placard RB41011 using MARKTRONIC engraver. 2-Fabricate lanyard and install placard as per DWG. See note 12. 3-Install -5 and -9 jacket assemblies as per DWG. 4-Load test as per drawing sheet 15.

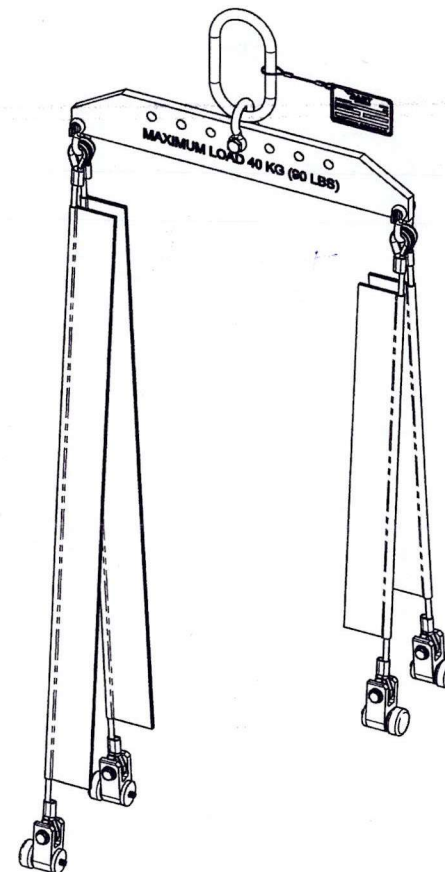
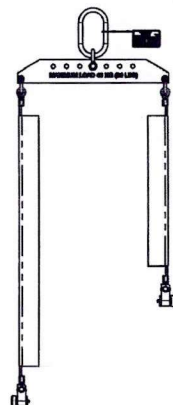
xl p.h.h. 01 Feb 2019.

Job BOM				
Part / Item	Component Name	Quantity	Operation	Container
RBW7111G00131-8GP	FWD Sliding Cowling Lifting Sling Tool	1 (1 ea)	100-Purchasing	5177092
3896T31	Ferule 1/16 X 3/8" - Aluminum	2 Ea (2 ea)	130-Small Fab - 2 - B4B	516158/516159
CL-2-C	Lanyard Wire	.3330 ft (.333 ea)	130-Small Fab - 2 - B4B	5119033
RB41011	Dart Tooling Placard, Aluminum	1 Ea (1 ea)	130-Small Fab - 2 - B4B	5021040
RBW7111G00131-8G-5	Long Jacket Assembly	2 pcs (2 ea)	130-Small Fab - 2 - B4B	5154723
RBW7111G00131-8G-9	Short Jacket Assembly	2 pcs (2 ea)	130-Small Fab - 2 - B4B	5154727

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	RBW7111G00131-8GP	1	0	0
130-Small Fab - 2 - B4B	3896T31	2	596	0
	CL-2-C	0	484	0
	RB41011	1	425	0
	RBW7111G00131-8G-5	2	0	0
	RBW7111G00131-8G-9	2	0	0
Part Specifications				
Specifications could not be found.				

Plex 2/1/19 11:02 AM dart.Lussier.Patrick

ITEM #	QTY	PART #	PART TITLE
-1	1	RBW7111G00131-8G-1	BASE PLATE
-2	4	RBW7111G00131-8G-2	CABLE END
-3	4	RBW7111G00131-8G-3	DISK
-4	4	RBW7111G00131-8G-4	KNOB
-5	2	RBW7111G00131-8G-5	LONG JACKET ASSEMBLY
-9	2	RBW7111G00131-8G-9	SHORT JACKET ASSEMBLY
13	1	RB41011	DART PLACARD
14	A/R	CARR-LANE#CL-2-C	NYLON COATED STEEL LANYARD 1/16" DIA.
15	2	McMaster#3550T34 OR EQUIV.	STEEL WIRE ROPE SLING 1/4" DIA. X 3' LG.
16	2	McMaster#3550T34 OR EQUIV.	STEEL WIRE ROPE SLING 1/4" DIA. X 2' LG.
17	1	McMaster#3568T42 OR EQUIV.	STEEL OBLING LINK 1/2" THK. X 5" LG. X 2-1/2" WD. X 4100 LBS. CAPACITY.
18	2	McMaster#3896T31 OR EQUIV.	ALUMINUM WIRE ROPE COMPRESSION SLEEVE 1/16" DIA. X 3/8" LG.
19	2	McMaster#8494T13 OR EQUIV.	STEEL SCREW PIN SHACKLE 3/8" PIN DIA. X 1500 LBS. CAPACITY.
20	1	McMaster#8494T28 OR EQUIV.	STEEL SAFETY PIN SHACKLE 3/8" THK. X 7/16" DIA.
21	4	McMaster#93298A125 OR EQUIV.	STEEL NYLON-INSERT FLANGE LOCKNUT 5/16"-24 X 11/32" HEIGHT.
22	8	McMaster#98023A030 OR EQUIV.	STEEL WASHER 0.344" ID X 0.688" OD.
23	4	AN5-15A	STEEL HEX HEAD SCREW 5/16"-24 X 1-23/32" LG. X 1-3/16" GRIP LG.



NOTES:

- 1) MATERIAL: N/A
- 2) HEAT TREAT: N/A
- 3) FINISH: N/A
- 4) TOLERANCES: X.X = +/- 0.1" / +/- 1"
X.XX = +/- 0.01" / +/- 0.5"
X.XXX = +/- 0.005" / +/- 0.1"
X.XXXX = +/- 0.0005" / +/- 0.05"
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/- 0.005"
- 5) UNITS: INCHES UNLESS OTHERWISE NOTED
- 6) REMOVE ALL SHARP EDGES, BURRS, AND WELD SPATTERS IF APPLICABLE
- 7) IDENTIFICATION: ENGRAVE THE SAFE WORKING LOAD 40 KG (90 LBS), TOOL P/N AND S/N, ON THE DART PLACARD WHERE INDICATED
- 8) ASSEMBLE AS SHOWN
- 9) INSTALL ITEM -3 HAND TIGHT
- 10) APPLY RED THREADLOCKER LOCTITE 263/262 ON THREADS OF ITEM 19 THEN ASSEMBLE WITH ITEM 21 AND REMOVE EXCESS
- 11) TORQUE ITEM 21 TO 15-20 FT-LBS (180-240 IN-LBS)
- 12) ASSEMBLED LANYARD LENGTH MUST BE 3" +/- 1"
- 13) SEWN ITEM -5 CENTER WITH ITEM 15
- 14) SEWN ITEM -9 CENTER WITH ITEM 16

RBW7111G00131-8G FWD SLIDING COWLING LIFTING SLING TOOL

A	NEW ISSUE	19-537	KPT
REV.	DESCRIPTION	ECN #	BY
DESIGN	KPT		
DRAWN	KPT		
CHECKED	MBB		
MFG. APPR.	DP		
APPROVED	WY		
DATE	30/01/2019		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
TOOL PART # RBW7111G00131-8G	REV. A
TITLE FWD SLIDING COWLING LIFTING SLING TOOL	SHEET 1 OF 15 SCALE NTS

COPYRIGHT © 2019 BY DART AEROSPACE LTD
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS
NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT
WRITTEN PERMISSION FROM DART AEROSPACE LTD.

8

7

6

5

4

3

2

1

D

D

C

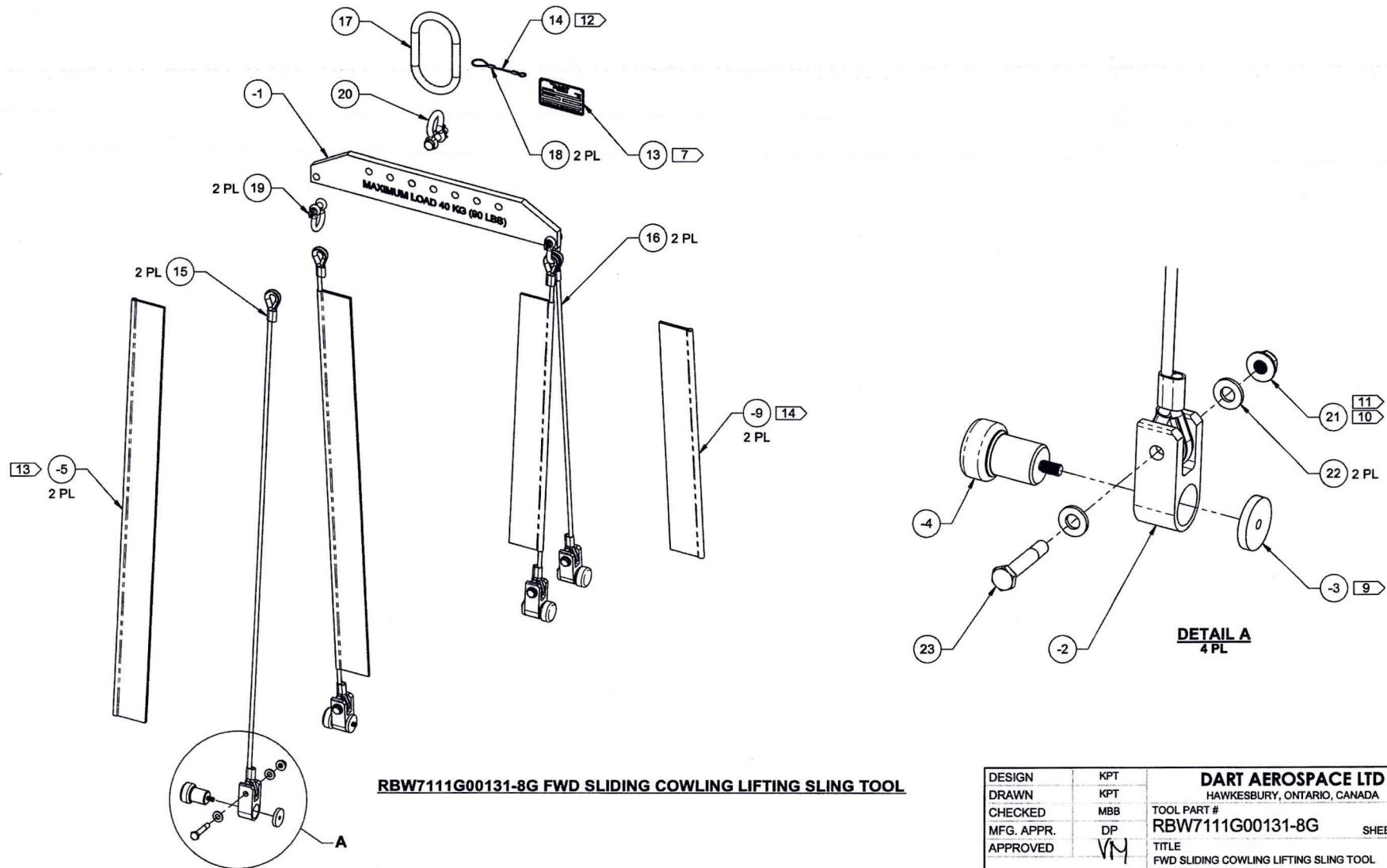
C

B

B

A

A



RBW7111G00131-8G FWD SLIDING COWLING LIFTING SLING TOOL

DESIGN	KPT	DART AEROSPACE LTD	
DRAWN	KPT	HAWKESBURY, ONTARIO, CANADA	
CHECKED	MBB	TOOL PART #	REV. A
MFG. APPR.	DP	RBW7111G00131-8G	SHEET 2 OF 15
APPROVED	VN	TITLE	SCALE
		FWD SLIDING COWLING LIFTING SLING TOOL	NTS
DATE	30/01/2019	COPYRIGHT © 2018 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

8

7

6

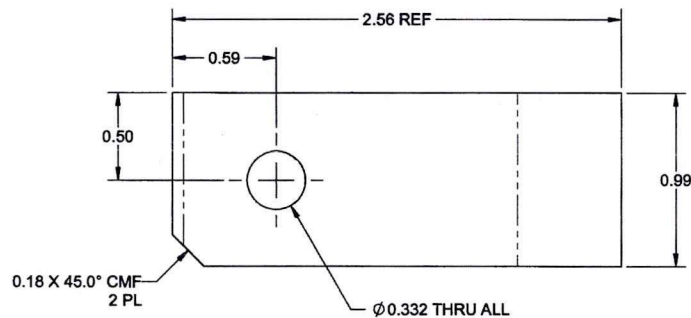
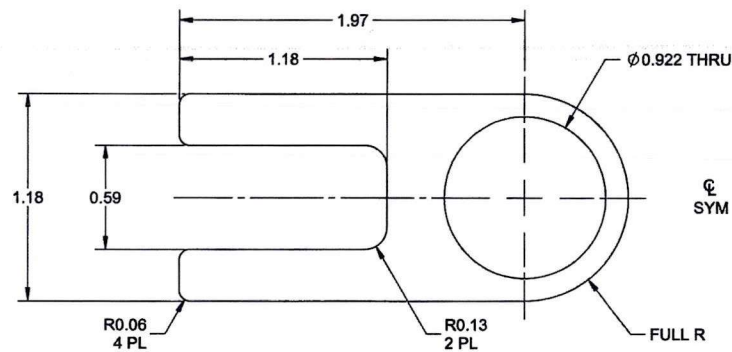
5

4

3

2

1

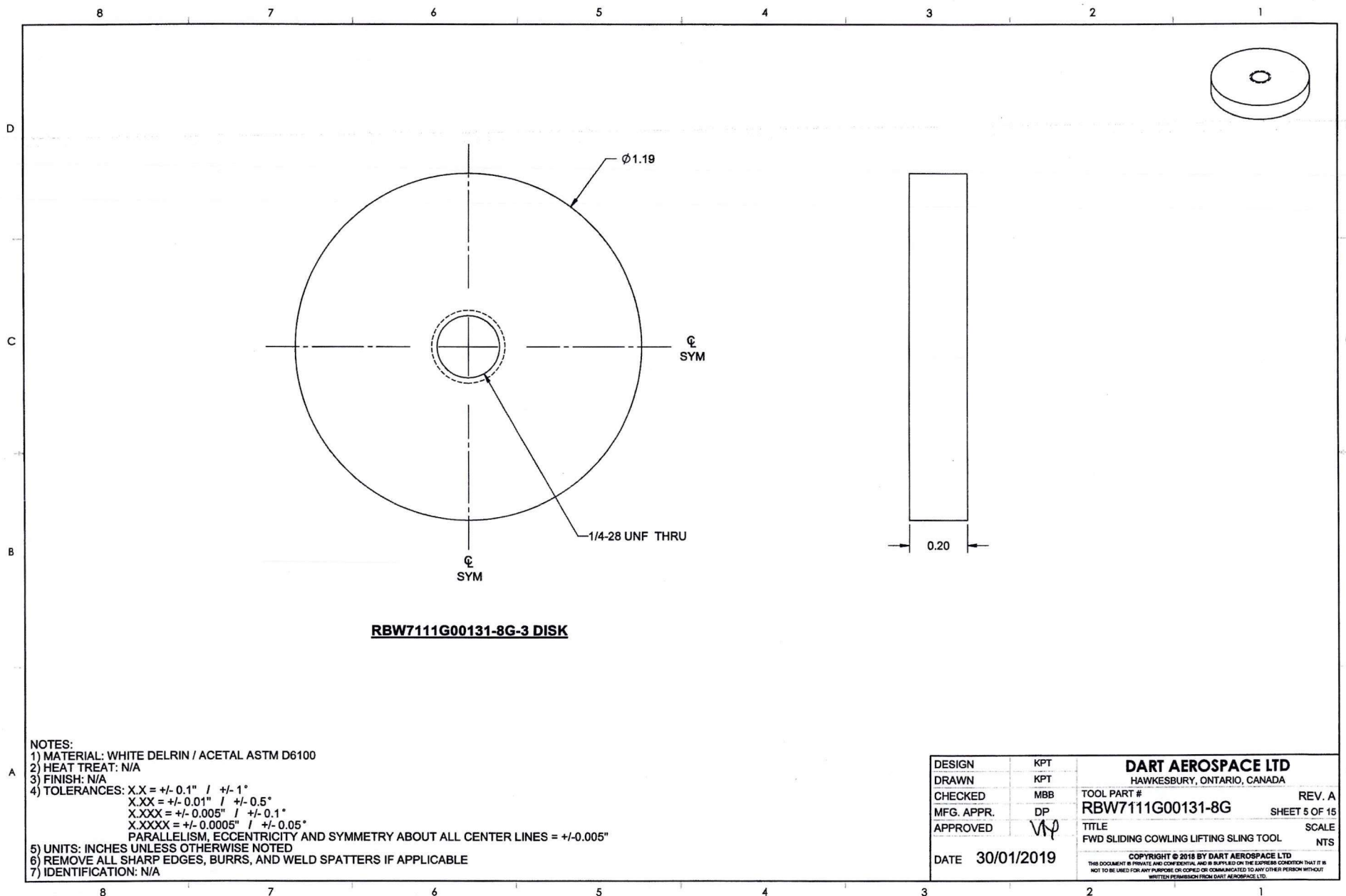


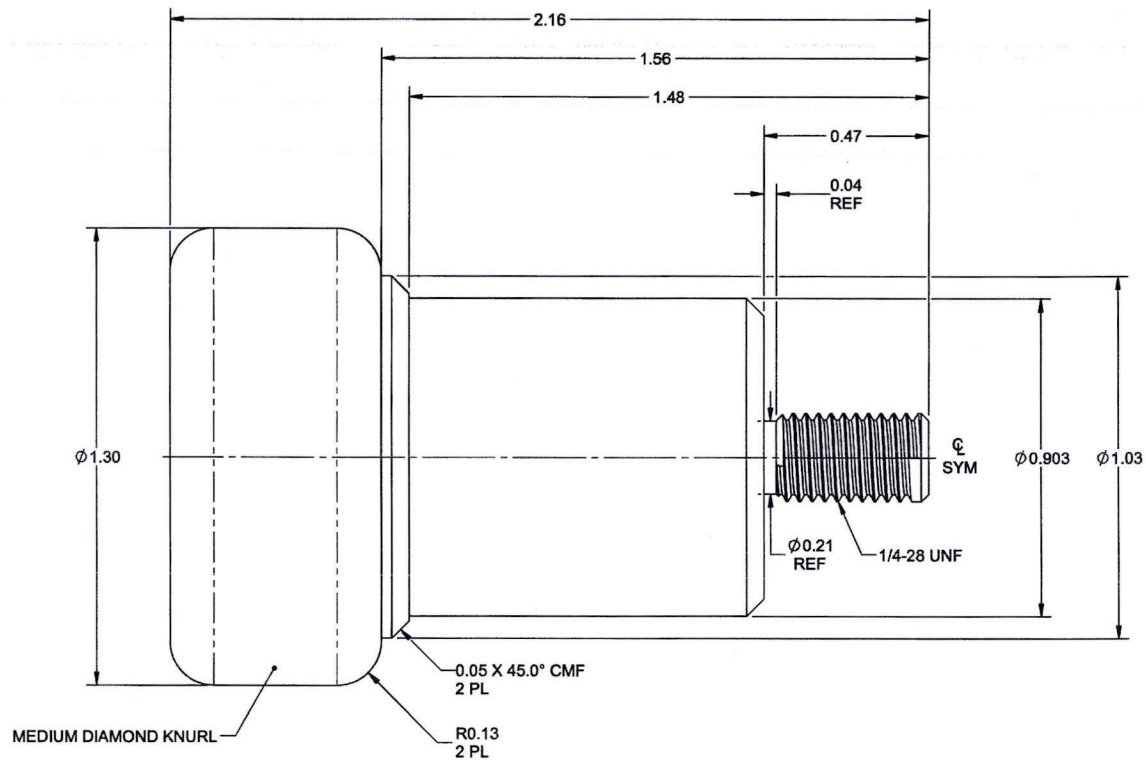
RBW7111G00131-8G-2 CABLE END

NOTES:

- 1) MATERIAL: 6061-T6
- 2) HEAT TREAT: N/A
- 3) FINISH: ANODIZE RED PER MIL-A-8625 TYPE 2 CLASS 2
- 4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
 X.XX = +/- 0.01" / +/- 0.5°
 X.XXX = +/- 0.005" / +/- 0.1°
 X.XXXX = +/- 0.0005" / +/- 0.05°
 PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/- 0.005"
- 5) UNITS: INCHES UNLESS OTHERWISE NOTED
- 6) REMOVE ALL SHARP EDGES, BURRS, AND WELD SPATTERS IF APPLICABLE
- 7) IDENTIFICATION: N/A

DESIGN	KPT	DART AEROSPACE LTD	
DRAWN	KPT	HAWKESBURY, ONTARIO, CANADA	
CHECKED	MBB	TOOL PART #	REV. A
MFG. APPR.	DP	RBW7111G00131-8G	SHEET 4 OF 15
APPROVED	<i>[Signature]</i>	TITLE	SCALE
		FWD SLIDING COWLING LIFTING SLING TOOL	NTS
DATE	30/01/2019	COPYRIGHT © 2018 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	





RBW7111G00131-8G-4 KNOB

NOTES:

1) MATERIAL: 303/304/316 STAINLESS STEEL

2) HEAT TREAT: N/A

3) FINISH: N/A

4) TOLERANCES: X.X = +/- 0.1" / +/- 1°

X.XX = +/- 0.01" / +/- 0.5°

X.XXX = +/- 0.005" / +/- 0.1°

X.XXXX = +/- 0.0005" / +/- 0.05°

PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/- 0.005"

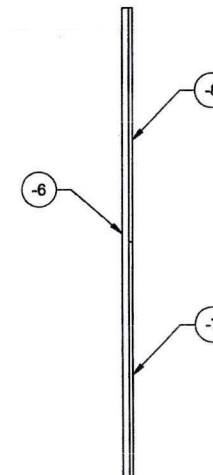
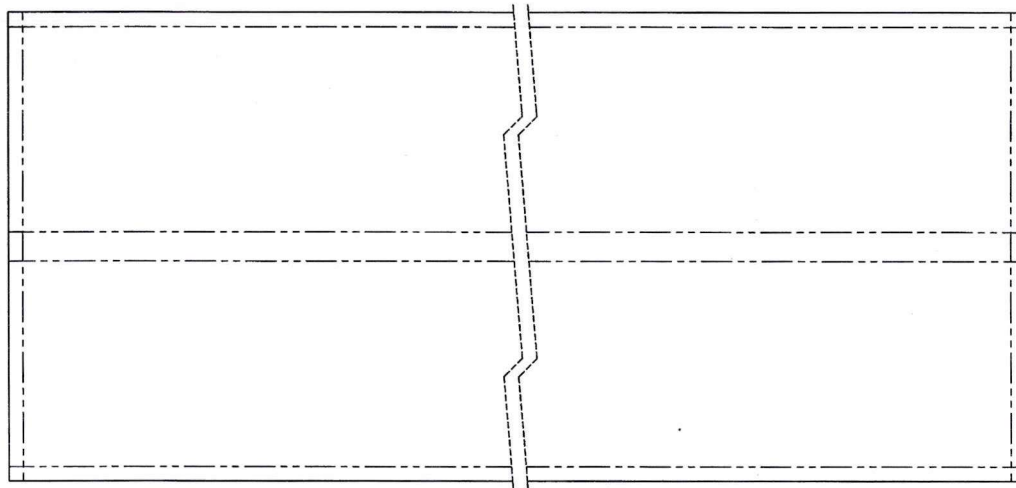
5) UNITS: INCHES UNLESS OTHERWISE NOTED

6) REMOVE ALL SHARP EDGES, BURRS, AND WELD SPATTERS IF APPLICABLE

7) IDENTIFICATION: N/A

DESIGN	KPT	DART AEROSPACE LTD	
DRAWN	KPT	HAWKESBURY, ONTARIO, CANADA	
CHECKED	MBB	TOOL PART #	REV. A
MFG. APPR.	DP	RBW7111G00131-8G	SHEET 6 OF 15
APPROVED	VJP	TITLE	SCALE
		FWD SLIDING COWLING LIFTING SLING TOOL	NTS
DATE	30/01/2019	COPYRIGHT © 2018 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

ITEM #	QTY	PART #	PART TITLE
-6	1	RBW7111G00131-8G-6	LONG JACKET
-7	1	RBW7111G00131-8G-7	LONG FASTENER LOOP
-8	1	RBW7111G00131-8G-8	LONG FASTENER HOOK



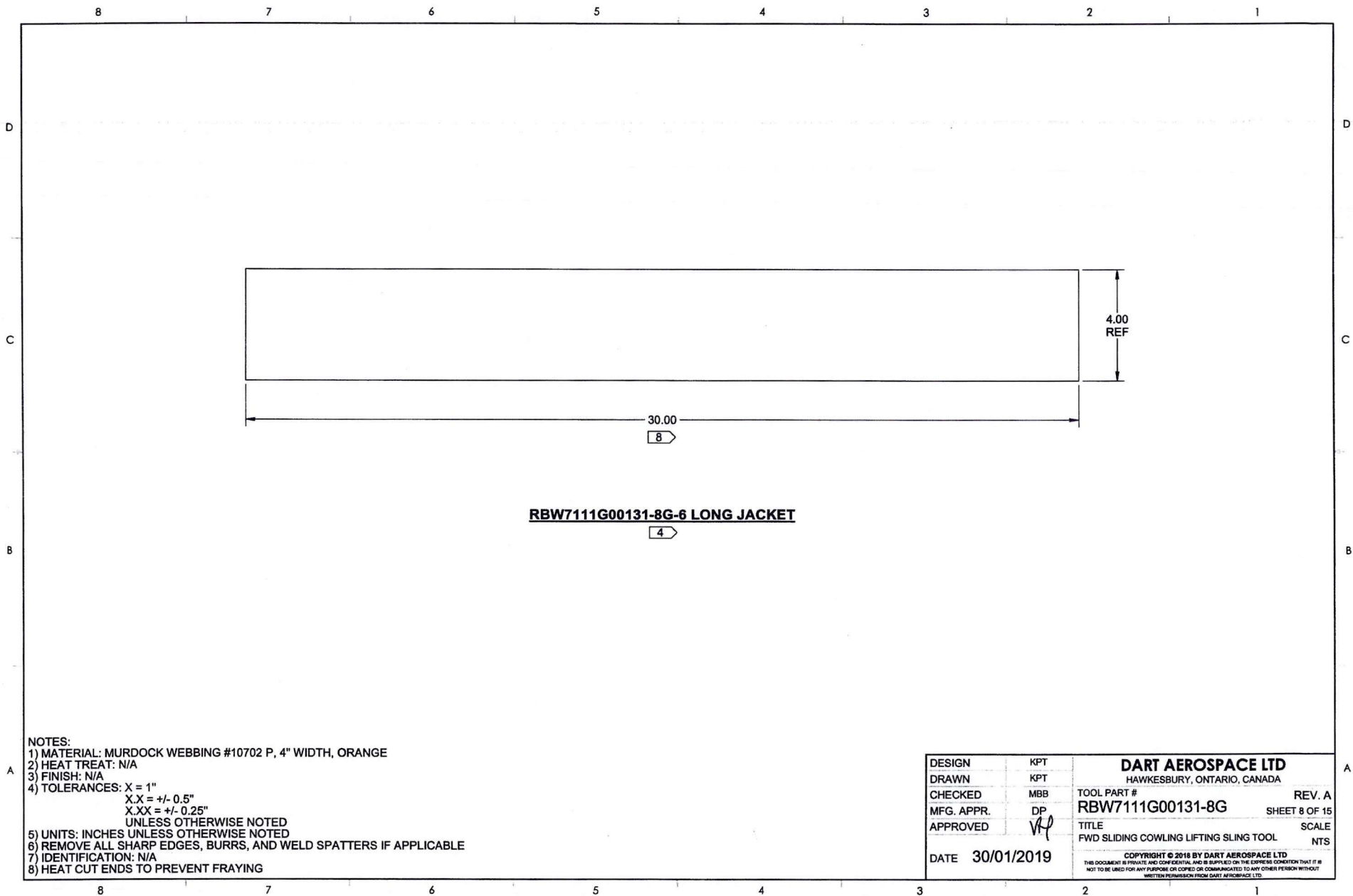
RBW7111G00131-8G-5 LONG JACKET ASSEMBLY

4 8 9 10 11

NOTES:

- 1) MATERIAL: N/A
- 2) HEAT TREAT: N/A
- 3) FINISH: N/A
- 4) TOLERANCES: X = +/- 1"
X.X = +/- 0.5"
X.XX = +/- 0.25"
UNLESS OTHERWISE NOTED
- 5) UNITS: INCHES UNLESS OTHERWISE NOTED
- 6) REMOVE ALL SHARP EDGES, BURRS, AND WELD SPATTERS IF APPLICABLE
- 7) IDENTIFICATION: N/A
- 8) SEW ITEMS TOGETHER AS SHOWN
- 9) STITCHING TO BE IAW ASTM D6193, TYPE 301, 6-10 STITCHES PER INCH, MINIMUM (1/2IN) BACKSTITCH, (1/2IN) SEAM ALLOWANCE, (1/2IN) TURNBACKS WHERE SHOWN, (1/8IN) FROM EDGE, ADDITIONAL ROWS OF SEWING ARE ACCEPTABLE TO ASSIST IN ASSEMBLY
- 10) PHANTOM LINES REPRESENT STITCHING
- 11) FASTENER LOOP/HOOK MUST BE ALIGNED WITH END OF JACKET BEFORE SEWING

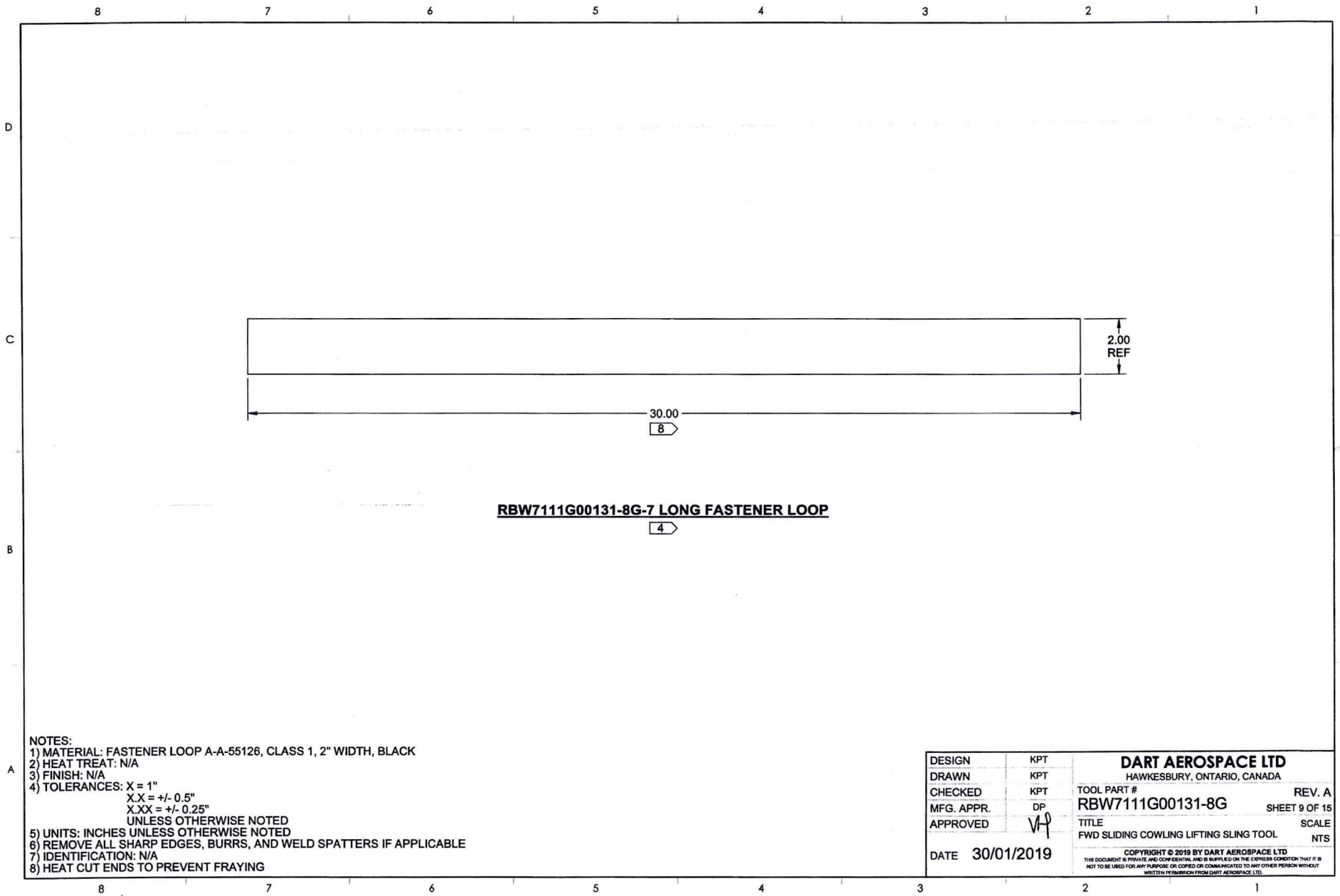
DESIGN	KPT	DART AEROSPACE LTD	
DRAWN	KPT	HAWKESBURY, ONTARIO, CANADA	
CHECKED	MBB	TOOL PART #	REV. A
MFG. APPR.	DP	RBW7111G00131-8G	SHEET 7 OF 15
APPROVED	<i>Wp</i>	TITLE	SCALE
		FWD SLIDING COWLING LIFTING SLING TOOL	NTS
DATE 30/01/2019		COPYRIGHT © 2018 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



NOTES:

- 1) MATERIAL: MURDOCK WEBBING #10702 P, 4" WIDTH, ORANGE
- 2) HEAT TREAT: N/A
- 3) FINISH: N/A
- 4) TOLERANCES: X = 1"
X.X = +/- 0.5"
X.XX = +/- 0.25"
UNLESS OTHERWISE NOTED
- 5) UNITS: INCHES UNLESS OTHERWISE NOTED
- 6) REMOVE ALL SHARP EDGES, BURRS, AND WELD SPATTERS IF APPLICABLE
- 7) IDENTIFICATION: N/A
- 8) HEAT CUT ENDS TO PREVENT FRAYING

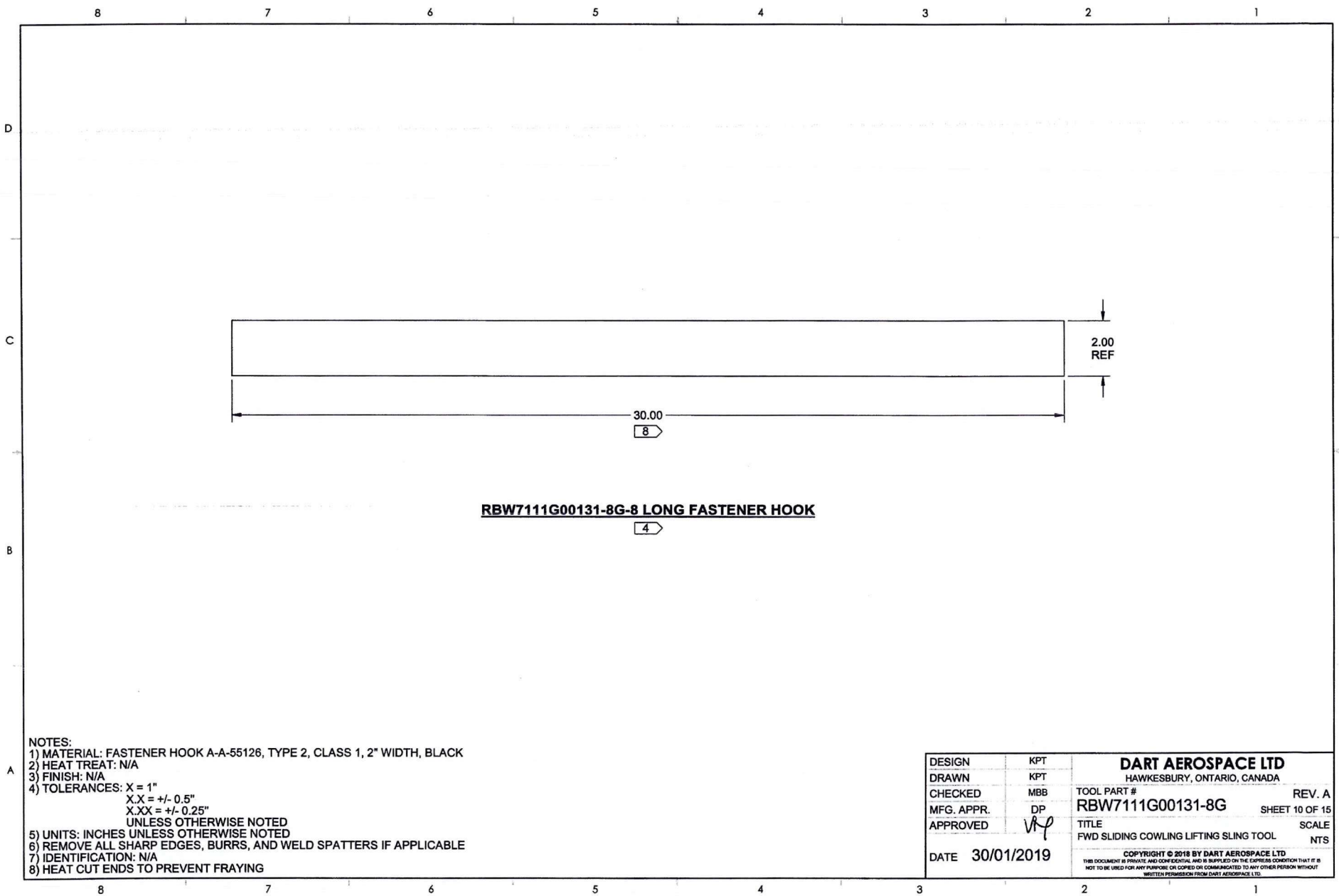
DESIGN	KPT	DART AEROSPACE LTD	
DRAWN	KPT	HAWKESBURY, ONTARIO, CANADA	
CHECKED	MBB	TOOL PART #	REV. A
MFG. APPR.	DP	RBW7111G00131-8G	SHEET 8 OF 15
APPROVED	<i>VP</i>	TITLE	SCALE
		FWD SLIDING COWLING LIFTING SLING TOOL	NTS
DATE	30/01/2019	COPYRIGHT © 2018 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



NOTES:

- 1) MATERIAL: FASTENER LOOP A-A-55126, CLASS 1, 2" WIDTH, BLACK
- 2) HEAT TREAT: N/A
- 3) FINISH: N/A
- 4) TOLERANCES: X = 1"
X.X = +/- 0.5"
X.XX = +/- 0.25"
UNLESS OTHERWISE NOTED
- 5) UNITS: INCHES UNLESS OTHERWISE NOTED
- 6) REMOVE ALL SHARP EDGES, BURRS, AND WELD SPATTERS IF APPLICABLE
- 7) IDENTIFICATION: N/A
- 8) HEAT CUT ENDS TO PREVENT FRAYING

DESIGN	KPT	DART AEROSPACE LTD	
DRAWN	KPT	HAWKESBURY, ONTARIO, CANADA	
CHECKED	KPT	TOOL PART #	REV. A
MFG. APPR.	DP	RBW7111G00131-8G	SHEET 9 OF 15
APPROVED	<i>VP</i>	TITLE	SCALE
		FWD SLIDING COWLING LIFTING SLING TOOL	NTS
DATE 30/01/2019		COPYRIGHT © 2019 BY DART AEROSPACE LTD	
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE, OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			



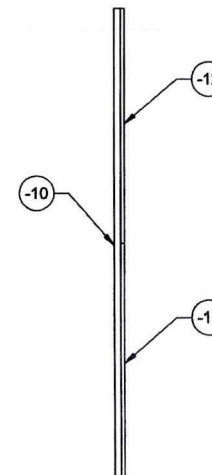
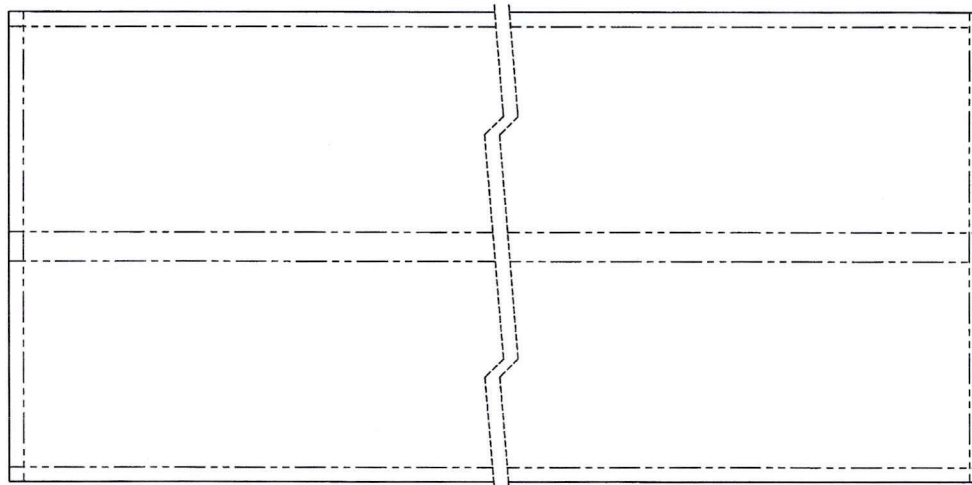
RBW7111G00131-8G-8 LONG FASTENER HOOK

NOTES:

- 1) MATERIAL: FASTENER HOOK A-A-55126, TYPE 2, CLASS 1, 2" WIDTH, BLACK
- 2) HEAT TREAT: N/A
- 3) FINISH: N/A
- 4) TOLERANCES: X = 1"
X.X = +/- 0.5"
X.XX = +/- 0.25"
UNLESS OTHERWISE NOTED
- 5) UNITS: INCHES UNLESS OTHERWISE NOTED
- 6) REMOVE ALL SHARP EDGES, BURRS, AND WELD SPATTERS IF APPLICABLE
- 7) IDENTIFICATION: N/A
- 8) HEAT CUT ENDS TO PREVENT FRAYING

DESIGN	KPT	DART AEROSPACE LTD	
DRAWN	KPT	HAWKESBURY, ONTARIO, CANADA	
CHECKED	MBB	TOOL PART #	REV. A
MFG. APPR.	DP	RBW7111G00131-8G	SHEET 10 OF 15
APPROVED		TITLE	SCALE
		FWD SLIDING COWLING LIFTING SLING TOOL	NTS
DATE	30/01/2019	COPYRIGHT © 2018 BY DART AEROSPACE LTD	
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			

ITEM #	QTY	PART #	PART TITLE
-10	1	RBW7111G00131-8G-10	SHORT JACKET
-11	1	RBW7111G00131-8G-11	SHORT FASTENER LOOP
-12	1	RBW7111G00131-8G-12	SHORT FASTENER HOOK



RBW7111G00131-8G-9 SHORT JACKET ASSEMBLY

4 8 9 10 11

NOTES:

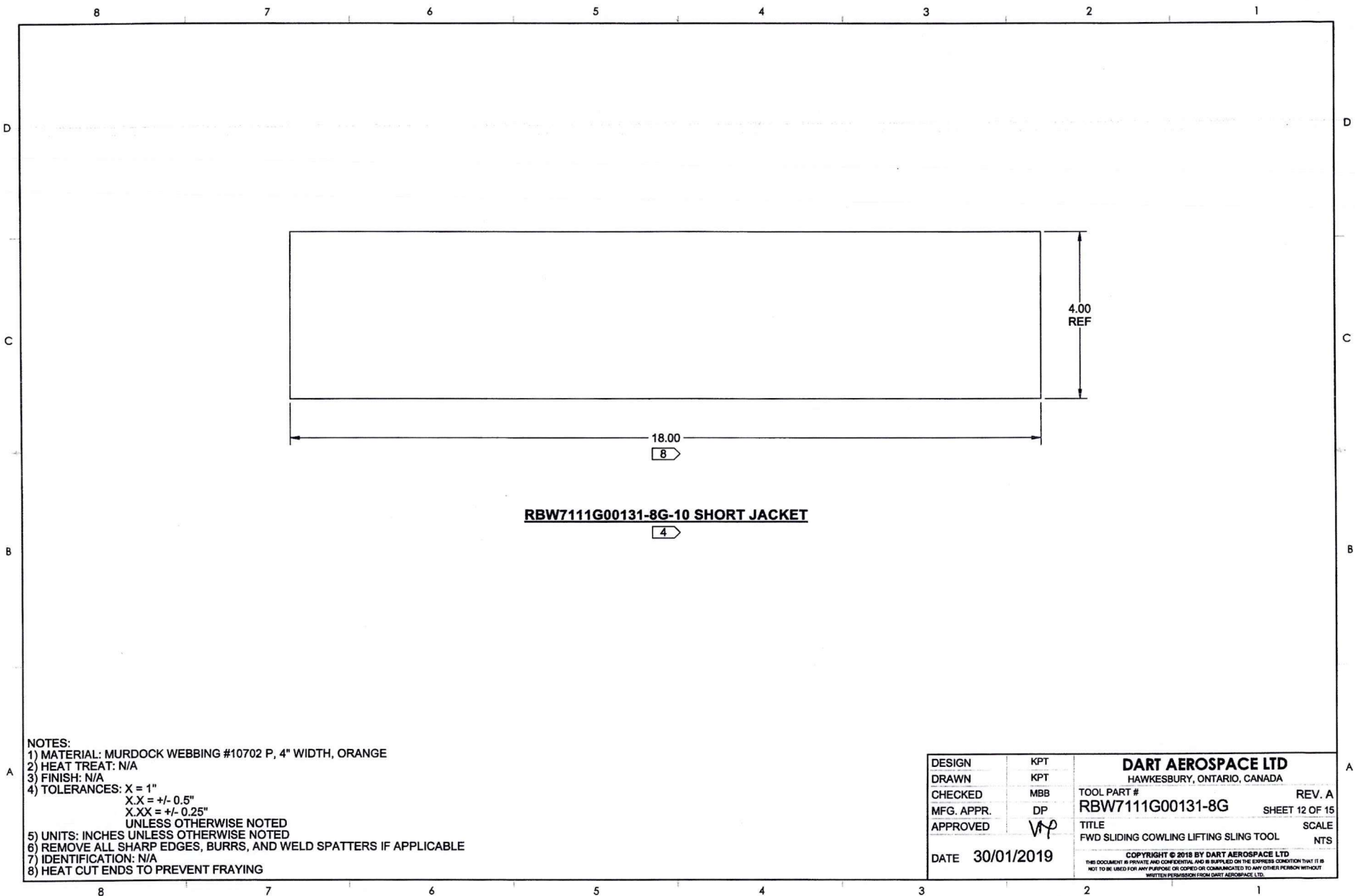
- 1) MATERIAL: N/A
- 2) HEAT TREAT: N/A
- 3) FINISH: N/A
- 4) TOLERANCES: X = +/- 1"

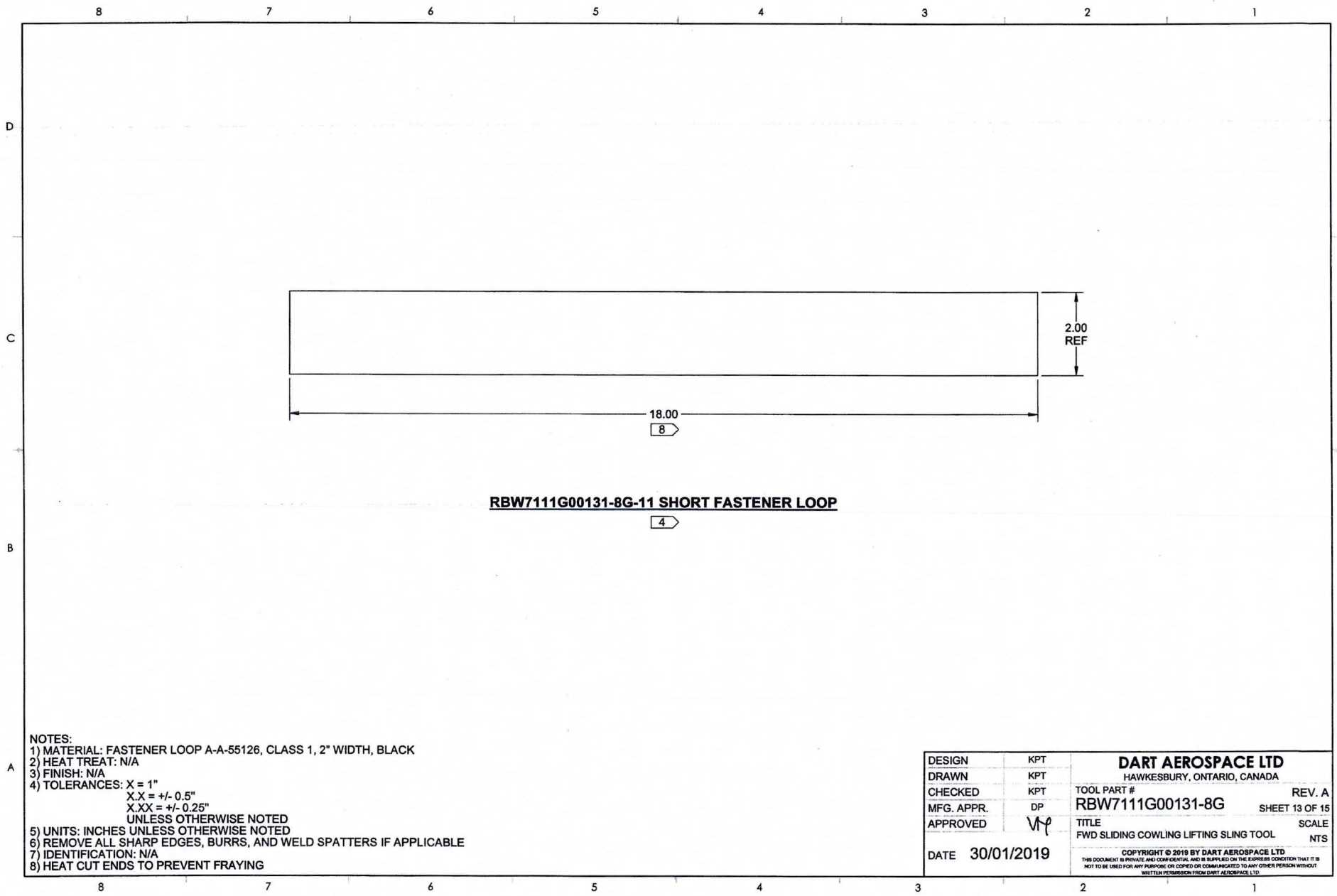
X.X = +/- 0.5"
X.XX = +/- 0.25"

UNLESS OTHERWISE NOTED

- 5) UNITS: INCHES UNLESS OTHERWISE NOTED
- 6) REMOVE ALL SHARP EDGES, BURRS, AND WELD SPATTERS IF APPLICABLE
- 7) IDENTIFICATION: N/A
- 8) SEW ITEMS TOGETHER AS SHOWN
- 9) STITCHING TO BE IAW ASTM D6193, TYPE 301, 6-10 STITCHES PER INCH, MINIMUM (1/2IN) BACKSTITCH, (1/2IN) SEAM ALLOWANCE, (1/2IN) TURNBACKS WHERE SHOWN, (1/8IN) FROM EDGE, ADDITIONAL ROWS OF SEWING ARE ACCEPTABLE TO ASSIST IN ASSEMBLY
- 10) PHANTOM LINES REPRESENT STITCHING
- 11) FASTENER LOOP/HOOK MUST BE ALIGNED WITH END OF JACKET BEFORE SEWING

DESIGN	KPT	DART AEROSPACE LTD	
DRAWN	KPT	HAWKESBURY, ONTARIO, CANADA	
CHECKED	MBB	TOOL PART #	REV. A
MFG. APPR.	DP	RBW7111G00131-8G	SHEET 11 OF 15
APPROVED	VP	TITLE	SCALE
		FWD SLIDING COWLING LIFTING SLING TOOL	NTS
DATE	30/01/2019	COPYRIGHT © 2016 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	





RBW7111G00131-8G-11 SHORT FASTENER LOOP

NOTES:

- 1) MATERIAL: FASTENER LOOP A-A-55126, CLASS 1, 2" WIDTH, BLACK
- 2) HEAT TREAT: N/A
- 3) FINISH: N/A
- 4) TOLERANCES: X = 1"
X.X = +/- 0.5"
X.XX = +/- 0.25"
UNLESS OTHERWISE NOTED
- 5) UNITS: INCHES UNLESS OTHERWISE NOTED
- 6) REMOVE ALL SHARP EDGES, BURRS, AND WELD SPATTERS IF APPLICABLE
- 7) IDENTIFICATION: N/A
- 8) HEAT CUT ENDS TO PREVENT FRAYING

DESIGN	KPT	DART AEROSPACE LTD	
DRAWN	KPT	HAWKESBURY, ONTARIO, CANADA	
CHECKED	KPT	TOOL PART #	REV. A
MFG. APPR.	DP	RBW7111G00131-8G	SHEET 13 OF 15
APPROVED	<i>VP</i>	TITLE	SCALE
		FWD SLIDING COWLING LIFTING SLING TOOL	NTS
DATE	30/01/2019	COPYRIGHT © 2019 BY DART AEROSPACE LTD	
		THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE, OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

8 7 6 5 4 3 2 1

D

D

C

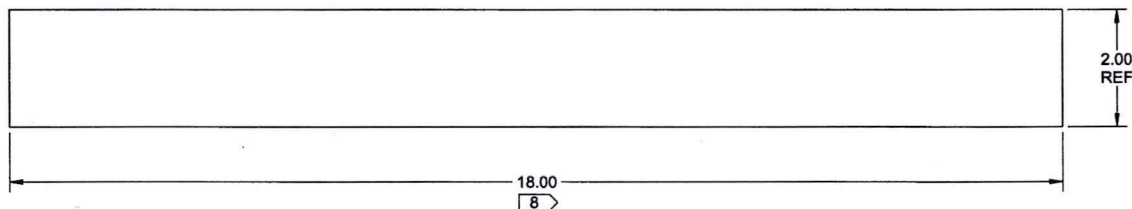
C

B

B

A

A



RBW7111G00131-8G-12 SHORT FASTENER HOOK

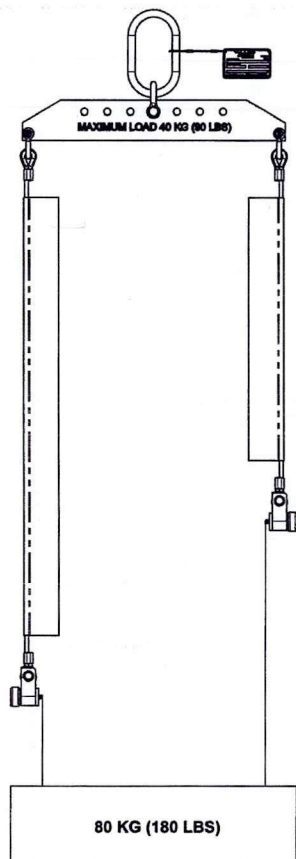
4

NOTES:

- 1) MATERIAL: FASTENER HOOK A-A-55126, TYPE 2, CLASS 1, 2" WIDTH, BLACK
- 2) HEAT TREAT: N/A
- 3) FINISH: N/A
- 4) TOLERANCES: X = 1"
X.X = +/- 0.5"
X.XX = +/- 0.25"
UNLESS OTHERWISE NOTED
- 5) UNITS: INCHES UNLESS OTHERWISE NOTED
- 6) REMOVE ALL SHARP EDGES, BURRS, AND WELD SPATTERS IF APPLICABLE
- 7) IDENTIFICATION: N/A
- 8) HEAT CUT ENDS TO PREVENT FRAYING

DESIGN	KPT	DART AEROSPACE LTD	
DRAWN	KPT	HAWKESBURY, ONTARIO, CANADA	
CHECKED	MBB	TOOL PART #	REV. A
MFG. APPR.	DP	RBW7111G00131-8G	SHEET 14 OF 15
APPROVED	VP	TITLE	SCALE
		FWD SLIDING COWLING LIFTING SLING TOOL	NTS
DATE	30/01/2019	COPYRIGHT © 2018 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

8 7 6 5 4 3 2 1



FIRST ARTICLE WEIGHT TEST

1. AFTER INSPECTION, PLACE SLING ASSEMBLY ON AN OVERHEAD LIFTING DEVICE. ATTACH SLING TO AN APPROPRIATE TEST WEIGHT TEST WEIGHT OF 80KG / 180 LBS.
2. LIFT WEIGHT FOR AT LEAST 5 MINUTES, CONTINUALLY CHECKING FOR CRACKS, DEFLECTION, DISTORTION OR DAMAGED/FRAYED STRAPS.
3. REMOVE WEIGHT AND RE-INSPECT SLING, CHECKING FOR STRESS CRACKS, BENDING, DISTORTIONS OR DAMAGED/FRAYED STRAPS.

QC INSPECTOR: PD / DAS 40
 TECH TESTER: SAD 19.05.01
 S/N: 5177096
 DATE: 19.05.01

TOOL LOAD CELL: # ~~10053~~ 1401053

DESIGN	KPT	DART AEROSPACE LTD	
DRAWN	KPT	HAWKESBURY, ONTARIO, CANADA	
CHECKED	MBB	TOOL PART #	REV. A
MFG. APPR.	DP	RBW7111G00131-8G	SHEET 15 OF 15
APPROVED	<i>[Signature]</i>	TITLE	SCALE
		FWD SLIDING COWLING LIFTING SLING TOOL	NTS
DATE	30/01/2019	COPYRIGHT © 2018 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO042477**



Supplier: MEM001-VC
Metec Metal Technology Inc.
20 Terry Fox Drive PO Box 781
Vankleek Hill
ON
K0B 1R0 Canada
Phone: 613 678 3957
Fax: 613 678 3956

Attention: Walz, Shigi

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO042477

PO Date: 2/1/19

Due Date: ~~3/29/19~~ 5/01/2019

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lussier, Patrick Phone:

Via: Ground

Pymt Terms: Net 60

Freight Terms:

Special Comments:

Items

Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	189976	RBW7111G00131-8GP			FWD Sliding Cowling Lifting Sling Tool REV A	Firmed	-	3/29/19 4/12/2019 05/01/2019 MAY 0 1 2019	1 Ea	0 Ea	1 Ea	\$1,750.00/Ea	\$1,750.00

Grand Total: \$1,750.00

Order Notes

Procurement Quality Clauses
A005 RIGHT OF ENTRY
A008 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION SENT TO DART AEROSPACE)
A012 CHEMICAL AND PHYSICAL TEST REPORTS
A016 PERSONNEL QUALIFICATION
A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)
A026 CERTIFICATION OF MATERIAL CONFORMANCE
A041 QUALITY MANAGEMENT SYSTEM
A042 DART NOTIFICATION BY SUPPLIER
A043 RETENTION OF QUALITY DOCUMENT

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 2/1/19 11:10 AM dart.Lussier.Patrick

Packing List

Bill Dart Aerospace Ltd.
To: 1270 Aberdeen Street
 Hawkesbury, ON K6A 1K7
 Canada

Ship Dart Aerospace Ltd.
To: 1270 Aberdeen Street
 Hawkesbury, ON K6A 1K7
 Canada

Shipment No: 25134
Shipment Date: 30-Apr-2019
Ship Via: Pick up at METEC
Order Number: 3441
Order Date: 02/04/19

Customer Code: DART
Phone: (613) 632-9577
PO Number: PO042477
Terms: Net 60 Days

Quantity							
<u>Item</u>	<u>Open</u>	<u>Shipped</u>	<u>B/O</u>	<u>Canceled</u>	<u>Unit</u>	<u>Description</u>	<u>Revision</u> <u>Job Number</u>
1	1	1	0	0	EA	RBW7111G00131-8GP Sling, Rear Sliding Cowling Lifting Tool	1 3441-01

The delivered goods must be inspected upon receipt to confirm compliance. Should there be discrepancies please notify METEC within 30 days of delivery. The goods are otherwise deemed accepted.

Received In Good Order By
 Dart Aerospace Ltd.



20 Terry Fox Drive, Vankleek Hill, Ontario K0B 1R0

Tel. (613) 678-3957 & (613) 678-2782 Fax (613) 678-3956 metec@metec.ca

CERTIFICATE OF CONFORMITY

SOLD TO:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ont.
K6A 1K7

SHIPPED TO:

same

Quantity	Part Number	Part Name	Dwg Rev.#	P.O. Number
1	RBW7111G00131-8GP	Sling, Rear Sliding Cowling Lifting Tool	1	42477

MATERIAL: supplied by METEC

DAS
40
9-89

We hereby certify that the above parts were made in conformance with applicable drawings.

METEC Metal Technology Inc.


George Theoret

Vankleek Hill, April 30, 2019



METAL TECHNOLOGY INC.

www.metec.ca | 20 Terry Fox Drive, Vankleek Hill, Ontario, Canada K0B 1R0 | Phone: +1 613-678-3957 Fax: +1 613-678-3956

LOAD TEST PROTOCOL

Title : FWD SLIDING COWLING LIFTING SLING TOOL

DWG : RBW7111G00131-8G Rev : A

Part # : _____ Serial # : _____

Date : April 30 / 2019 Inspector : George Theoret

Inspection Method : _____

As per Client Protocol: ☒

Protocol Attached : ☐

Load Requirement : lbs 180 kg _____

Load Weight for 5 minutes

Pre Inspection

Deflection ☐ Distortion ☐ Cracking ☐ Tearing ☐ Others ☐

Description: _____

Under Load Inspection

Deflection ☐ Distortion ☐ Cracking ☐ Tearing ☐ Others ☐

Description: _____



METAL TECHNOLOGY INC.

www.metec.ca | 20 Terry Fox Drive, Vankleek Hill, Ontario, Canada K0B 1R0 | Phone: +1 613-678-3957 Fax: +1 613-678-3956

Post Inspection

Deflection ☐ Distortion ☐ Cracking ☐ Tearing ☐ Others ☐

Description: _____

Pictures : Yes ☒ No ☐

Pictures Attached to Protocol : Yes ☒ No ☐

Load Test Result : Pass ☒ Fail ☐

If Fail Describe : _____

Inspector : George Theoret

Signature : George Theoret

Tester : _____

Signature : _____

S/N : _____

Date : April 30 / 2019